



*Designed for leading-edge  
engineering, management, and  
technology professionals*

# Master of Science in Engineering Management



The field of engineering bridges across several business sectors due to the fact that the field incorporates process, design, technology, and the management of projects and people. Our MSEM program highlights the synergism between the application of engineering and management as part of strategic planning and in order to sustain a competitive advantage.

## Key Learning Outcomes

- Evaluate the functions of Engineering Management
- Design strategic plans to improve efficiency & effectiveness
- Develop processes for manufacturing & production systems
- Formulate strategies to manage and motivate a diverse workforce
- Create & improve Engineering Management in an ethical way

## Possible Career Opportunities

- Director of Engineering
- Senior Systems Engineer
- Manufacturing Manager
- Engineering Project Manager
- Business Development Manager
- Vice President of Engineering
- Technology Manufacturing Manager
- Chief Operations Officer

*\*Career Opportunities will depend on graduates' cumulative experience in the field and/or the time of graduation.\**

## Required Courses

- MSEM 525 Strategic Management in a Globalized Economy
- MSEM 530 Managing Information Systems & Technology
- MSEM 600 Principles of Engineering Management
- MSEM 601 Operations Management
- MSEM 605 Product & Design Process Development
- MSEM 606 Management of Information Security
- MSEM 608 Information Technology Project Management
- MSEM 615 Enterprise Resource Planning Systems
- MSEM 617 E-Business Technology & Management
- MSEM 641 Leading Strategic Change within Organizations
- MSEM 690 Big Data Analytics
- MSEM 694 Applied Engineering Management Capstone Project

Total **36 credit hours**